

Industries That Use Robots

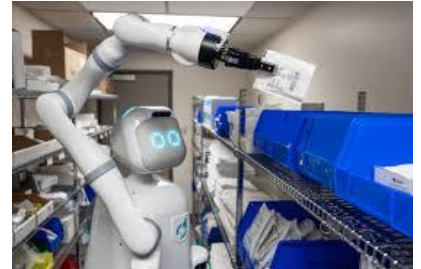
By: Kyle Budgell



Health Care

Robotics have had a huge impact on health care over the years, such as surgeries, rehabilitation, therapy, and everyday activities. For example, if someone suffers a spinal injury, a device such as an exoskeleton can be used to help treat that injury. This makes the healing process a lot more possible and a lot more easier for the patient. All the other robotic tools that are used are also not used to do the job for the doctors, but rather just to make their job a lot easier.

I predict that in the future, there will be more robot nurses than there will be humans for major jobs like surgeries, and even for stuff like therapy and rehabilitation. I think that robots are a lot less likely to mess up while performing a surgery than a human is. This will also help for further outbreaks, so a vaccine can likely get out quicker and that patients can maybe be treated quicker.



Agriculture

While farmers have already been using tractors and harvesters that are self-guided by a GPS, there has recently been a rise in use of autonomous systems that do pruning, thinning, mowing, spraying, and weed removal all for you. Sensor technology is also being used to get rid of pests and diseases that affect crops.

I think that in the future, there will be actual machines and robots working on farms instead of humans because working on a farm all day isn't an easy job at all - and it would certainly take a load off if all the farmers had robots do it all for them.



Food

Robots that are used in the food industry are mostly used for dispensing, feed placement, cutting, packaging, casing of food, picking and placing products into containers, and sorting. When packaging foods, the robot is almost always faster than the human, especially when companies want to get it packaged and sent out quickly. They are equipped with intelligent vision systems allowing the placement of products on a belt to be done with incredible accuracy.

Soon, there is going to be a robot that will be able to cook hundreds of meals in the kitchen. It will be controlled through a smartphone, and once you choose a recipe on it the robot will prepare itself and cook the meal.



Manufacturing

With robotic manufacturing equipment becoming safer to operate, robotics in this industry is starting to become used a lot more. With these different machines, the goal is to lower production cost and to aim for precision, not speed. They can also be reprogrammed for different sizes and complexities. Cameras and sensors also help so that the robots can make sure to stay clear of humans in the workspace.

I predict that in the future, humans won't be doing anything anymore, and that robots will be doing **all** of the work when it comes to manufacturing products.



Military

In the military, drones are used quite a bit for surveillance on the battlefield. They can also be used to give real time information to soldiers, and access danger levels in a certain area. These devices are getting faster too, since they can get in and out of areas quicker, meaning that they are less likely to put human responders in harm's way.

In the future, I say that there will be actual robots out on the battlefield instead of humans. I say this because out in Iraq and Afghanistan, they apparently already have some prototypes out / in development.



Where I got my information!

<https://spectrum.ieee.org/autoton/robotics/medical-robots/medical-robots-future-outbreak-response>

<https://www.robotshop.com/community/blog/show/is-the-future-of-agriculture-in-robotics>

<https://www.brookings.edu/opinions/wired-for-war-the-future-of-military-robots/#:~:text=The%20robotic%20systems%20just%20rolling,now%20in%20Iraq%20and%20Afghanistan.&text=The%20next%20wave%20of%20new,improved%E2%80%9D%20versions%20of%20existing%20platforms.>

<https://onlinemasters.ohio.edu/blog/5-industries-utilizing-robotics/>

<https://www.robots.com/articles/advantages-of-robots-in-food-manufacturing>